1897

## mineral probletion of canada

To Dr. G. M. Dawson, C.M.G., F.R.S., Etc.,<br>Director of the Geological Survey.

Sir, - I have the honour herewith to submit the annual preliminary statistical statement of the mineral production of Canada for the calendar year 1897.

The necessity of waiting for several important returns has held back this statement a few days later than the date at which it was found possible to complete it last year.

Whilst for many of the prolucts it is not found possible, at this time, to obtain final figures, yet we are enabled, in most cases, to fill in the places of missing returns by close estimates, based on a general knowlelge of the progress made in the various industries.

The complete report will follow later, and besides containing a revise of this general table of production, will include other details relating to exploration, development, exports, imports, etc. As much of this information is not avaihble till several months after the close of the year, and the compilation and printing necessarily occupy some time, it cannot, in the nature of things, be issued until well on in the year following the one covered.

## I am, sir,

## Your obedient servant,

ELFRIC DREW INGAILL.

Gehogical Survey of Canada,
Section of Mineral Statistics and Mines, 23rd February, 1898.

GEOLOGICAL SURVEY OF CANADA G. M. DAWson, C.M.G., LL.D., F.R.S., Director.
SECTIONOF
mINERAL STATISTICS AND MINES

SUMMARY

OF THE

## mineral PRODUCTION OF CANADA

## FOR 1897

## ELFRIC DREW INGALL, M.E.

Associate of the Royal School of Mines, Mining Engincer to the (icologica? Surtey of Canale.

ASSISTANT
J. McI_HISH, IB.A.


# GEOLOGICAL SURVEY OF CANADA. 

SUMMARY OF THE MINERAL PRODUCTION OF CANADA
(Subject to Revision.)


* Partly estimated.
(a) (2nantity or value of product marketed. The ton used is that of $2,000 \mathrm{lhs}$.
(3) Copper contents of ore, malto, etc., at $11 \cdots$ cessts per 1 b .
(c) IAtal contents of remes, etco, at 3 :58 conts 1 mer Its.

(o) Silver contents of ore at in Fig cents par o\%.
(f) Ovar coke, all the proxluction of Nova Soution and British Culumbia.

(h) Catcolaterl from inspection returns at 100 galls, crude to, 42 refined oil, and computerl at $\$ 1.425$ jer lobl. of $3 \bar{j}$ intp. galls. The barrel of refined oil is assmed to contain fe imp. galls.

SUMMARY OF THE MINERAL PRODUCTION OF CANADA IN 1897-Concluded.
(Subject to Revision.)

| Pronuct. | Quantity. (a) | Value. (i.) |
| :---: | :---: | :---: |
| Struerural Matemala ann Clay lobituts. |  |  |
| Cement, natural...... . .. .. .... .... .... Buls. | $\begin{array}{r} 85,450 \\ 119,763 \end{array}$ | $\begin{array}{r} 65,593 \\ 204,380 \end{array}$ |
| Flagstumes |  | \%\%,090 |
| * Granite |  | 12\%,(\%) |
| *Pottery |  | 164, 2501 |
| Sower pipe Slate |  | 42, 81010 |
|  |  | 155,509 |
| Bailding material, including bricks, building stone, lime, sands and gravels and tiles (estimated as for previous year) |  | 3,600, (0, $\mathrm{MH}^{(1)}$ |
|  |  | $\begin{array}{r} 4,445,108 \\ 10,497,831 \end{array}$ |
| All uther nom-metallic......................................................097,831 |  |  |
|  |  | 14,542,439 |
| Total metallic |  | 13, $5 \times 6,234$ |
| Estimated value of miseral products not returned |  | 250, (0, 0 |
| 189\%, Total | ...... | 28,7R9,173 |
|  |  | 22,600, 825 |
| 18.55 |  | 20,715,319 |
| 1894 * |  | 19.4838 |
| 1893 |  | 15,124, 117 |
| 189 |  | 18.!Tictili |
| 1891 |  | 16.763, 63.363 |
| 18\% |  | 14,013, 413 |
| 1889 |  | 12.79:550 |
| 1888 |  | 11.3175, 0.05 |
| 1886 |  | 10,221,255 |
| 188\% |  | 11,20.2is |

[^0]
## REMARKS

The figures given in the preceling general table bring out in a marked degree the gratifying results of the greatly increased activity in the miming industry during 1897 .

The following table shows the principal changes in production and values for the calendar year 1897, as compared with the figures given in the revised summary for 1890 .

| Pronuct. | Qcantity. |  | Value. |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Increase. | Deorease. | Increase. | I) ecrense. |
| Metallic :- | p.e. | p.c. | $\mathrm{p} . \mathrm{c}$. | p. c. |
| Copper |  |  | 404.9 |  |
| Iring Ore |  | 223 |  | $6 \cdot 7$ |
| Ifead. | 61.2 |  | 93.7 |  |
| Silser | 17 73 |  | 17.7 |  |
|  |  |  |  |  |
| Asbestur and Asbestic. <br> $10 \% 2$ |  |  |  |  |
|  |  |  |  |  |
| Cosal .......... | 35 |  | 0.8 |  |
| Cyprum Natural Gas. | $15 \cdot 8$ |  | 373 |  |
| Natural ${ }^{\text {Petasio }}$ |  | 23 | $17 \cdot 9$ |  |
| Cethent........ | 376 |  | $3 \%$ | \% |

The increase in the items silver and lead is practically all to be credited to British Columbia, to which province is also largely due the increase in the production of copper. The largest increase ir this latter metal is, however, due to the increased shipments of nickelcopper mattes from the Sudbury mines in Ontario. The third copper producing province, Quebec, also contributed a fair amount to the increase shown. The silver, copper and lead increases as far as British Columbia is concerned, represent the largely extended activities in the Nouth Kootenay districts of Slocan, Nelson and Trail Creek.
The most significant item, however, is to be found in the increase of nearly 123 per cent in the gold. All thel gold producing districts of the Dominion show gratifying increases, although by far the lugest part is due to the discoveries of rich phacer mines in the Yukon country, and to the increased output of Trail Creek and other districts in British Columbia. The former increase amounted to about $2 \frac{1}{4}$ millions and the latter to nearly $\$ 1,000,000$.

The remaining metal of importance is nickel which is seen to have shown an increase of nearly 18 per cent. As in the past this is all from the Sudbury district.

Thus the aggregate result of the increases in the metallic products is nearly $\$ 6,000,000$, or a proportion of about 74 per cent.

An interesting result of the mining developments and discovery of 1897 is shown in the increase in the proportion of the value of the total mineral proctuction to be credited to the metals. In 1896 these constituted about 36 per cent, whilst in 1897 this proportion was increased to nearly 49 per cent.

Turning to the non-metallic products, we find that as far as the data at present available permit of a conclusion being arrived at, the total value shows under ${ }^{3}$ per cent of an increase over that of the previous year. The only considerable change to be noted is that given under the heading asbestus, where the quantity has more than doubled, whilst the value has fallen off ahost 25 per cent. This is due to the fact that the output of the new by-product asbestic, is included. This constitutes over half the weight of the whole, but being a low priced article brings down the price per unit very much. The returns, however, show also a falling off in the prices of the usual grades of the mineral apart from the above influence.

In the important mineral coal the variation is but little. The falling of in the production of the higher priced mineral of British Columbia and the increase in that of Nova Scotia at a lower price, causing a fall in the total value. In gypsum the increase in the value is larger than that shown in the quantity. This is due to the larger proportion of the higher priced product, Plaster of Paris, ineluded in the returns for 1897. The lower average price ruling during that year for petrolemm caused the decrease in the value of this article to be much greater than that in the quantity.

The following table gives the proportional values of the different minerals in the grand total. It is interesting to note the changes in their relative position in 1897 as compared with 1896 :-



[^0]:    * Partly estimated.
    (et) (quantity or value of product marketed. The ton used is that ot 2,000 lbes.

